

ABSTRACT

Organic, small pore area materials ("SPMs") are provided comprising open cell foams in unlimited sizes and shapes. These SPMs exhibit minimal shrinkage and cracking. Processes for preparing SPMs are also provided that do not require supercritical extraction. These processes comprise sol-gel polymerization of a hydroxylated aromatic in the presence of at least one suitable electrophilic linking agent and at least one suitable solvent capable of strengthening the sol-gel. Also disclosed are the carbonized derivatives of the organic SPMs.

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